

PTO/SB/08A (08-03)

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PATENT & TRADEMARK OFFICE  
Substitute for form 1449/PTO**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

1

of

3

**Complete if Known**

Application Number	10/634,709
Filing Date	08-05-2003
First Named Inventor	Amy Mae Bunker
Art Unit	1614
Examiner Name	Unknown
Attorney Docket Number	PC25236A

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
W		US- 10/071,032	02-08-2002	Dyer, et al	
W		US- 2002/0156061 A1	10-24-2002	Barvian, et al	
W		US- 2003/0004172 A1	01-02-2003	Harter, et al	
W		US- 2003/0078276 A1	04-24-2003	Andrianjara, et al	
W		US- 2002/0193377 A1	12-19-2002	Andrianjara, et al	
W		US- 2002/0151558 A1	10-17-2002	Andrianjara, et al	
W		US- 2002/0156069 A1	10-24-2002	Picard, et al	
W		US- 6,656,932 B2	12-02-2003	Picard, et al	
W		US- 2002/0161000 A1	10-31-2002	Barvian, et al	
W		US- 2003/0087924 A1	05-08-2003	Sorenson	
W		US- 2003/0144274 A1	07-31-2003	Bunker, et al	
W		US- 2002/0151555 A1	10-17-2002	Barvian, et al	
W		US- 2003/0130278 A1	07-10-2003	Gaudilliere, et al	
W		US- 2003/0216402 A1	11-20-2003	Gaudilliere, et al	
W		US- 2003/0220355 A1	11-27-2003	Gaudilliere, et al	
W		US- 2004/0006077 A1	01-08-2004	Gaudilliere, et al	
W		US- 10/634,531	08-05-2003	Johnson	
W		US- 10/634,162	08-05-2003	Wilson	
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
W		WO 02/064599 A1	08-22-2002	Dyer, et al		
W		WO 02/064547 A2, A3	08-22-2002	Barvian, et al		
W		WO 02/064598 A1	08-22-2002	Harter, et al		
W		WO 02/064080 A2, A3	08-22-2002	Andrianjara, et al		
W		WO 02/064572 A1	08-22-2002	Andrianjara, et al		
W		WO 02/064595 A1	08-22-2002	Andrianjara, et al		

Examiner  
Signature

V. Balasubramanian

Date  
Considered

1/7/06

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 2

of 3

**Complete if Known**

Application Number	10/634,709
Filing Date	08-05-2003
First Named Inventor	Amy Mae Bunker
Art Unit	1614
Examiner Name	Unknown
Attorney Docket Number	PC25236A

U. S. PATENT DOCUMENTS					
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		Number-Kind Code <sup>2</sup> (if known)			
W		US- 10/634,473	08-05-2003	Bunker, et al	
W		US- 10/634,289	08-05-2003	Bunker, et al	
W		US- 10/634,180	08-05-2003	Bunker, et al	
W		US- 10/634,712	08-05-2003	Hicks, et al	
W		US- 10/634,181	08-05-2003	Li	
W		US- 10/634,489	08-05-2003	Roark	
W		US- 10/634,420	08-05-2003	Roark	
W		US- 10/634,716	08-05-2003	Nahra, et al	
W		US- 10/634,288	08-05-2003	O'Brien	
W		US- 10/634,717	08-05-2003	Nahra, et al	
W		US- 10/634,177	08-05-2003	Wilson	
W		US- 10/634,290	08-05-2003	Wilson	
W		US- 10/634,182	08-05-2003	Li	
W		US- 10/634,419	08-05-2003	Hicks, et al	
W		US- 10/634,713	08-05-2003	Picard	
W		US- 10/634,225	08-05-2003	Picard, et al	
W		US- 10/634,718	08-05-2003	Ortwine	
W		US- 10/739,261	12-18-2003	Bunker, et al	
		US-			

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
W		WO 02/064578 A1	08-22-2002	Picard, et al		
W		WO 02/064571 A1	08-22-2002	Barvian, et al		
W		WO 02/064568 A1	08-22-2002	Barvian, et al		
W		WO 03/032999 A1	04-23-2003	Bunker, et al		
W		WO 03/033478 A1	04-24-2003	Gaudilliere, et al		
W		WO 03/076417 A2, A3	09-18-2003	Gaudilliere, et al		

Examiner  
Signature

V. Balazs

Date  
Considered

1/7/06

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Substitute for form 1449/PTO  <h1>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h1> <p><i>(Use as many sheets as necessary)</i></p>		<h2>Complete if Known</h2>	
		Application Number	10/634,709
		Filing Date	08-05-2003
		First Named Inventor	Amy Mae Bunker
		Art Unit	1614
		Examiner Name	Unknown
		Attorney Docket Number	PC25236A
Sheet 8	of 3		

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FOREIGN PATENT DOCUMENTS						
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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
M		WO 04/000322 A1	12-31-2003	Gaudilliere, et al		

Examiner Signature	V. Balasubramanian	Date Considered	1/7/06
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**Complete if Known****INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 4

Application Number	10/634,709
Filing Date	August 5, 2003
First Named Inventor	Bunker, et al
Art Unit	1624
Examiner Name	Deepak R. Rao
Attorney Docket Number	PC25236A

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
W		US- 6,008,243	12-28-1999	Bender, et al	
W		US- 2003/0229103	12-11-2003	Weithmann, et al	
W		US- 5,130,317	07-14-1992	Baader, et al	
W		US- 5,260,323	11-09-1993	Baader, et al	
W		US- 5,519,038	05-21-1996	Baader, et al	
W		US- 6,150,394	11-21-00	Fumihiko, et al	
W		US- 6,172,057	01-09-01	Aranapakam, et al	
		US-			
		US-			
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
W		WO-01/63244	08-30-2001	Chen, et al		
W		WO-00/09485	02-24-2000	McClure, et al		
W		WO-01/12611	02-22-2001	Blagg		
W		WO-02/34726	05-02-2002	Noe, et al		
W		WO02/34753	05-02-2002	Bronk, et al		
W		EP-0935963	08-18-1999	McClure, et al		

Examiner  
Signature

V. Balaraman

Date  
Considered

11/7/06

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**Confirmation No. 7386**

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Substitute for form 1449/PTO

***(Use as many sheets as necessary)***

Sheet 2 of 4

Application Number	10/634,709
Filing Date	August 5, 2003
First Named Inventor	Bunker, et al
Art Unit	1624
Examiner Name	Deepak R. Rao
Attorney Docket Number	PC25236A

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W		EP-1138680	10-04-2001	Noe, et al		
W		CA-2,082,076	05-06-1993	Weidmann, et al		
W		WO-01/12612	02-22-01	Hargreaves, et al		
W		EP-0286364	07-13-94	Scherrer		

Examiner Signature	V. Balasubramanian	Date Considered	11/2/06
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				Art Unit	1624
				Examiner Name	Deepak R. Rao
Sheet	3	of	4	Attorney Docket Number	PC25236A

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
M		Billinghurst, et al, "Comparison of the Degradation of Type II Collagen and Proteoglycan in Nasal and Articular Cartilages Induced by Interleukin-1 and the Selective Inhibition of Type II Collagen Cleavage by Collagenase", Arthritis & Rheumatism, Vol. 43, No. 3 March 2000, pp.664-672.	
M		Dahlberg, et al, "Selective Enhancement of Collagenase-Mediated Cleavage of Resident Type II Collagen in Cultured Osteoarthritic Cartilage and Arrest with a Synthetic Inhibitor That Spares Collagenase I (Matrix Metalloproteinase I)", Arthritis & Rheumatism, Vol. 43, No. 3, March 2000 pp. 673-682.	
M		Freemont, et al, "In situ zymographic localisation of type II collagen degrading activity in osteoarthritic human articular cartilage", Ann. Rheum. Dis. 1999, 58, pp.357-365.	
M		Hirota, et al, "Novel Synthesis of Pyrido[3,4-d]Pyrimidines, Pyrido[2,3-d]-Pyrimidines and Quinazolones via Palladium-Catalyzed Oxidative Coupling", Heterocycles, Vol. 37, No. 1, 1994 pp.563-570.	
M		Reboul, et al, "The New Collagenase, Collagenase-3, Is Expressed and Synthesized by Human Chondrocytes but not by Synoviocytes", J. Clin. Invest. Vol. 97, No. 9, May 1996 pp.2011-2019.	
M		Wernicke, et al, "Cloning of Collageanse 3 from the Synovial Membrane and Its Expression In Rheumatoid Arthritis and Osteoarthritis", J. of Rheumatology, 1996, Vol. 23, No. 4, pp.590-595.	
M		Chen, et al, "Structure-Based Design of a Novel, Potent, and Selective Inhibitor for MMP-13 Utilizing NMR Spectroscopy and Computer-Aided Molecular Design", J. Am. Chem. Soc., 2000, Vol. 122, pp. 9648-9654.	
M		Billinghurst, et al, "Enhanced Cleavage of Type II Collagen by Collagenase in Osteoarthritic Articular Cartilage", J. Clin. Invest., Vol. 99, No. 7, April 1997, pp.1534-1545.	
M		Lovejoy, et al, "Crystal structures of MMP-1 and -13 reveal the structural basis for selectivity of collagenase inhibitors", Nature Structural Biology, Vol. 6, No. 3, March 1999, pp.217-221.	
M		Moy, et al, "High-resolution Solution Structure of the Catalytic Fragment of Human Collagenase-3 (MMP-13) Complexed with a Hydroxamic Acid Inhibitor", J. Mol. Biol., 2000, Vol. 302, pp. 671-689.	

Examiner Signature	V. Balasubraman	Date Considered	11/7/06
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		Examiner Name	Deepak R. Rao		
Sheet	4	of	4	Attorney Docket Number	PC25236A

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Office Action mailed June 16, 2003, in U.S. 10/264,764	
W		Neuhold, et al, "Postnatal expression in hyaline cartilage of constitutively active human collagenase-3 (MMP-13) induces osteoarthritis in mice" J. Clin. Invest. January 2001, Vol. 107, No. 1 pp.35-44.	
W		Mitchell, et al, "Cloning, Expression, and Type II Collagenolytic Activity of Matrix Metalloproteinase-13 from Human Osteoarthritic Cartilage", J. Clin. Invest., Vol. 97, No. 3, February 1996 pp.761-768.	
W		International Search Report in PCT/IB03/03616	
M		Chemical Abstracts Nakayama, et al, "Preparation of 2-ethynylthiazole derivatives as leukotriene antagonists" AN 129:189329	

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Substitute for form 1449-P-10

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**Complete if Known**

Application Number	10/634,709
Filing Date	August 5, 2003
First Named Inventor	Amy Mae Bunker
Art Unit	1624
Examiner Name	V. Balasubramanian
Attorney Docket Number	PC25236A

Sheet	1	of	2
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**Examiner  
Signature**

V. Balasubraman

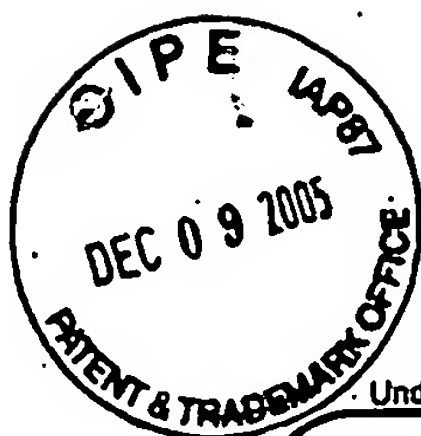
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12/31/2010	12/31/2010

1/2/06

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<b>Substitute for form 1449/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/634,709
				Filing Date	August 5, 2003
				First Named Inventor	Amy Mae Bunker
				Art Unit	1624
				Examiner Name	V. Balasubramanian
Sheet	2	of	2	Attorney Docket Number	PC25236A

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
WY		Robert et al., "Non-acidic antiinflammatory compounds II. Synthesis and activity of 6-amino-2,4-lutidine derivatives", Eur. J. Med. Chem., Vol. 29, 1994, pp 841-854	

Examiner Signature	V. Balasubramanian	Date Considered	11/7/06
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